Aquaculture and Fisheries Management 1990, **21**, 497–498

Author Index

Albrecht K.J. *see* Roland W.G.
Aloo P.A., *see* Dadzie S.
Ambak M.A., *see* Khan M.S.
Ang K.J., *see* Khan M.S.
Arce F., *see* Dalzell P.

Babaluk J.A. & Craig J.F.: Tetracycline marking studies with pike, *Esox lucius* L., 307
Baglinière J.L., *see* Maisse G.
Bahnsawy M.H., *see* Nagięć M.
Barlow C., *see* Rutledge W.
Beaumont W.R.C., *see* Mann R.H.K.
Berg M., *see* Berg O.K.
Berg O.K. & Berg M.: Effects of Carlin tagging on the mortality and growth of anadromous Arctic char, *Salvelinus alpinus* (L.), 221
Bninska M., *see* Moriarty C.
Bracken J.J., *see* Kelly-Quinn M.
Bromage N., Hardiman P., Jones J., Springate J. & Bye V.: Fecundity, egg size and total egg volume differences in 12 stocks of rainbow trout, *Oncorhynchus mykiss* Richardson, 269
Bukowski J., *see* Harrell R.M.
Bye V., *see* Bromage N.

Caparro O.R.: Effect of temperature and feeding on conditioning of *Ostrea chilensis* Philippi 1845 reproductors, 399
Chavez de Martinez M.C., Escobar B.L. & Olvera-Novoa M.A.: The requirement of *Cichlasoma urophthalmus* (Günther) fry for pantothenic acid and the pathological signs of deficiency, 145
Cornelis P., *see* Tacon A.G.J.
Corpuz P., *see* Dalzell P.
Craig J.F., *see* Babaluk J.A.
Cruz E.M. & Ridha M.: Production of marketable-size tilapia, *Oreochromis spiluris* (Günther), in seawater cages using different production schedules, 187

Dadzie S. & Aloo P.A.: Reproduction of the North American blackbass, *Micropterus salmoides* (Lacepède), in an equatorial lake, Lake Naivasha, Kenya, 449
Dalzell P., Corpuz P., Arce F. & Ganaden R.: Philippine small pelagic fisheries and their management, 77
Divakaruni S.N.M. & Sharma S.V.: Oxygen consumption by fertilized eggs and early developmental stages in rohu, *Labeo rohita* (Hamilton), 131
Doulos S.K. & Kindschi G.A.: Effects of oxygen supersaturation on the culture of cutthroat trout, *Oncorhynchus clarki* Richardson, and rainbow trout, *Oncorhynchus mykiss* Richardson, 39

Escobar B.L., *see* Chavez de Martinez M.C.
Escritor F., *see* Villegas C.T.

Ganaden R., *see* Dalzell P.
Garrett R., *see* Rutledge W.
Giller P.S., *see* Twomey H.
Gilmour A., *see* Rana K.J.

Hansen T.J., *see* Stefansson S.O.
Hardiman P., *see* Bromage N.
Harrell R.M. & Bukowski J.: The culture, zooplankton dynamics and predator–prey interactions of Chesapeake Bay striped bass, *Morone saxatilis* (Walbaum), in estuarine ponds, 195
Hesthagen T., *see* Johnsen B.O.
Huusko A., *see* Salojärvi K.

Johnsen B.O. & Hesthagen T.: Recapture of pond- and hatchery-reared brown trout, *Salmo trutta* L., released in small streams, 245
Johnsen B.O. & Ugedal O.: Feeding by hatchery- and pond-reared brown trout, *Salmo trutta* L., fingerlings released in a lake and in a small stream, 253
Jones J., *see* Bromage N.

Kadari M., *see* Tacon A.G.J.
Kelly-Quinn M. & Bracken J.J.: A seasonal analysis of the diet and feeding dynamics of brown trout, *Salmo trutta* L., in a small nursery stream, 107
Khan M.S., Ambak M.A., Ang K. J. & Mohsin A.K.M.: Reproductive biology of a tropical catfish, *Mystus nemurus* Cuvier & Valenciennes, in Chenderoh reservoir, Malaysia, 173
Kindschi G.A., *see* Doulos S.K.
Knights B., *see* Naismith I.A.

Leopold M., *see* Moriarty C.
Lone K.P., *see* Ridha M.T.

McAndrew B.J., *see* Rana K.J.
see also Stephen A.B.
Madenjian C.P.: Patterns of oxygen production and consumption in intensively managed marine shrimp ponds, 407
Maisse G. & Baglinière J.L.: The biology of brown trout, *Salmo trutta* L., in the River Scorff, Brittany: a synthesis of studies from 1973 to 1984
Mann R.H.K. & Beaumont W.R.C.: Fast- and slow-growing pike, *Esox lucius* L., and problems of age-determinations from scales, 471
Mawle G.E. & Randerson P.F.: The response to a postal survey collecting information for fisheries management, 479
Martinez-Cordero F.J., Ross L.G. & Martinez-Palacios C.A.: Determination of morphometric parameters in the Mexican mojarra, *Cichlasoma urophthalmus* (Günther), for the design and construction of box graders, 293
Martinez-Palacios C.A., *see* Martinez-Cordero F.J.
Millamena O., *see* Villegas C.T.
Mohsin A.K.M., *see* Khan M.S.

Moore A., Russell I.C. & Potter E.C.E.: Preliminary results from the use of a new technique for tracking the estuarine movements of Atlantic salmon, *Salmo salar* L., smolts, 369
Moriarty C., Bninska M. & Leopold M.: Eel, *Anguilla anguilla* L., stock and yield in Polish lakes, 347
Mounce D.E., *see* Mundie J.H.
Msiska O.V.: Reproductive strategies of two cyprinid fishes in Lake Malawi and their relevance for acquaculture development, 67
Muiruri R.M., *see* Rana K.J.
Mundie J.H., Mounce D.E. & Simpson K.S.: Semi-natural rearing of coho salmon, *Oncorhynchus kisutch* (Walbaum), smolts, with an assessment of survival to the catch and escapement, 327

Nagięć M. & Bahnsawy M.H.: Age and growth of female eels, *Anguilla anguilla* L., in a Polish lake, Jezoriak Lake, Mazurian Lake District, Poland, 459
Naismith I.A. & Knights B.: Studies of sampling methods and of techniques for estimating populations of eels, *Anguilla anguilla* L., 357
Newkirk G.F., *see* Toro J.E.
Nordeide J.T. & Svåsand T.: The behaviour of wild and reared juvenile cod, *Gadus morhua* L., towards a potential predator, 317
Nortvedt R., *see* Stefansson S.O.

Olvera-Novoa M.A., *see* Chavez de Martinez M.C.
Onusiriuka B.C., *see* Ufodike E.B.C.

Pandian T.J., *see* Kavumpurath S.
Poole W.R.: Summer fyke nets as a method of eel capture in a salmonid fishery, 259
Potter E.C.E., *see* Moore A.

Ram Bhaskar B. & Srinivasa Rao K.: Use of haematological parameters as diagnostic tools in determining the health of milkfish, *Chanos chanos* (Forskal), in brackishwater culture, 125
Rana K.J., Muiruri R.M., McAndrew B.J. & Gilmour A.: The influence of diluents, equilibration time and pre-freezing storage time on the viability of cryopreserved *Oreochromis niloticus* (L.) spermatozoa, 25
Randerson P.F., *see* Mawle G.W.
Rausin N., *see* Tacon A.G.J.
Rěhulka J.: Effect of hydrolytically changed and oxidized fat in dry pellets on the health of rainbow trout, *Onchorhynchus mykiss* (Richardson), 419
Rezk M., *see* Tave D.
Ridha M. & Lone K.P.: Effect of oral administration of different levels of 17 α-methyltestosterone on the sex reversal, growth and food conversion efficiency of the tilapia *Oreochromis spilurus* (Günther) in brackish water, 391
see also Cruz E.M.
Rimmer M., *see* Rutledge W.
Roland W.G. & Albrecht K.J.: Production of Pacific oysters. *Crassostrea gigas* Thunberg, from wild-caught and hatchery-produced seed grown at several densities on oyster shells, 31
Ross L.G., *see* Martinez-Cordero F.J.
Russell I.C., *see* Moore A.
Russell J., *see* Rutledge W.
Rutledge W., Rimmer M., Russell J., Garrett R., & Barlow C.: Cost benefit of hatchery-reared barramundi, *Lates calcarifer* (Bloch), in Queensland, 443

Salojärvi K. & Huusko A.: Results of whitefish, *Coregonus lavaretus* L., fingerling stocking in the lower part of the Sotkamo water course, northern Finland, 229
Sharma S.V., *see* Divakaruni S.N.M.
Simpson K.S., *see* Mundie J.H.
Skurdal J., *see* Taugbøl T.
Smitherman R.O., *see* Tave D.
Springate J., *see* Bromage N.
Srinivasa Rao K., *see* Ram Bhaskar B.
Stefansson S.O., Nortvedt R., Hansen T.J. & Taranger G.L.: First feeding of Atlantic salmon, *Salmo salar* L., under different photoperiods and light intensities, 435
Stephen A.B. & McAndrew B.J.: Distribution of genetic variation in brown trout, *Salmo trutta* L., in Scotland, 47
Svåsand T.: Comparisons of migration patterns of wild and recaptured reared coastal cod, *Gadus morhua* L., released in a small fjord in western Norway, 491
see also Nordeide J.T.

Tacon A.G.J., Rausin N., Kadari M. & Cornelis P.: The food and feeding of marine finfish in floating net cages at the National Seafarming Development Centre, Lampung, Indonesia: rabbitfish, *Siganus canaliculatus* (Park), 375
Tave D., Rezk M. & Smitherman R.O.: Effect of body colour of *Oreochromis mossambicus* (Peters) on predation by dragonfly nymphs, 157
Taugbøl T. & Skurdal J.: Effect of density on brood size in noble crayfish, *Astacus astacus* L., subjected to indoor rearing conditions, 17
Toro J.E. & Newkirk G.F.: Phenotypic analysis in the Chilean oyster, *Ostrea chilensis* Philippi 1845: relationship between juvenile and adult growth rates, 285
Twomey H. & Giller P.S.: Stomach flushing and individual Panjet tattooing of salmonids: an evaluation of the long-term effects on two wild populations, 137
Ufodike E.B.C. & Onusiriuka B.C.: Acute toxicity of inorganic fertilizers to African catfish, *Clarias gariepinus* (Teugals), 181
Ugedal O., *see* Johnsen B.O.

Van Dam A.: Multiple regression analysis of accumulated data from aquaculture experiments: a rice–fish culture example, 1
Varadaraj K.: Production of monosex male *Oreochromis mossambicus* (Peters) by administering 19-norethisterone acetate, 133
: Dominant red colour morphology used to detect paternal contamination in batches of *Oreochromis mossambicus* (Peters) gynogens, 163
Villegas C.T., Millamena O. & Escritor F.: Food value of *Brachionus plicatilis* fed three selected algal species as live food for milkfish, *Chanos chanos* Forsskal, fry production, 213

Aquaculture and Fisheries Management 1990, **21**, 499–500

Subject Index

Age:
  determination, pike, 471
  eels, 459
Algae, food value, 213
Anguilla anguilla, see eel
Aquaculture:
  cyprinid reproduction, 67
  data analysis, rice–fish, 1
Astacus astacus, see crayfish

Barramundi, cost benefit, 443
Bass, striped, predation, 195
Behaviour, cod, to predator, 317
Blackbass, reproduction, 449
Book reviews:
  Adults of the British Aquatic Hemiptera Heteroptera. A Key with Ecological Notes. By A.A. Savage, 265
  Antarctic Ocean and Resources Variability. Edited by D. Sahrhage, 264
  Clam Mariculture in North America. Edited by J.J. Manzii & M. Castagna, 267
  Design and Operating Guide for Aquaculture Seawater Systems. By J.E. Huguenin & J. Colt, 263
  Fish Nutrition. Edited by J.E. Halver, 143
  Ponds, Passes and Parcs: Aquaculture in Victorian Ireland. By N.P. Wilkins, 143
  Systematic Pathology of Fish. By H.W. Ferguson, 373
  The Angler in Ireland: Game, Coarse and Sea. By K. Whelan, 373
  The Eurasian Huchen, Hucho hucho, *Largest Salmon of the World.* By J. Holcik, K. Hensel, J. Nieslanik & L. Skacel, 265
  Tweed Towards 2000. Edited by D. Mills, 266
Brachionus plicatilis, food for milkfish, 213
Brachydanio rerio, see zebrafish
Brood size, crayfish rearing, 17

Cages, floating, finfish feeding, 375
Catfish:
  reproductive biology, 173
  toxicity of fertilizers, 181
Chanos chanos, see milkfish
Char, Arctic, tagging, 221
Chichlasoma urophthalmus, see cichlid
Cichlid:
  box grader 293
  fry vitamin deficiency, 145
  morphometric parameters, 293
Clarias gariepinus, see catfish
Cod:
  behaviour to predator, 317
  migration, 491
Coho salmon, rearing, 327
Colour, body, predation, 157
Conditioning, tilapia, 391
Consumption, oxygen, shrimp ponds, 407
Coregonus lavaretus, see whitefish
Cost, benefit, barramundi, 443
Crassostrea gigas, see oyster, Pacific

Crayfish, brood size, 17
Cryopreservation, tilapia spermatozoa, 25
Culture:
  crayfish, 17
  striped bass, 195
  trout, 39
Cyprinid, reproduction, 67

Deficiency:
  pantothenic acid, cichlid, 145
Density:
  effect on brood size, 17
  oyster production, 31
Development, rohu eggs, 131
Diet, trout, 107

Eel:
  capture, by fyke nets, 259
  growth, 459
  sampling methods, 357
  yield, Polish lakes, 347
Egg:
  development, rohu, 131
  size, trout, 269
  volume, trout, 269
Esox lucius, see pike

Fat, trout food, 419
Fecundity, rainbow trout, 269
Feeding:
  finfish in cages, 375
  trout, 107, 253
Fertilizers, toxicity, 181
Finfish, feeding, floating cages, 375
Fingerling:
  feeding, 253
  stocking, 229
Food:
  conversion efficiency, tilapia 391
  finfish feeding, 375
  oyster conditioning, 399
  trout, rainbow, 419
Freezing, tilapia spermatozoa, 25
Fry:
  cichlid, 145
  milkfish, 213
Fyke nets, eel capture, 259

Gadus morhua, see cod
Grader, box for mojarra, 293
Growth:
  char, 221
  eels, 459
  oyster, 285
  pike, fast and slow, 471
  trout, 95
Gynogenesis, tilapia, 163

Haematology, milkfish, 125
Health:
  milkfish, 125
  trout, rainbow, 419

Labeo rohita, see rohu
Lates calcarifer, see barramundi
Light intensity, salmon first feeding, 435

Male, monosex production, 133
Management:
  pelagic fisheries, 77
  postal survey, 479
Marking:
  pike, 307
  salmonids, 137
Methods, sampling eels, 357
Micropterus salmoides, see blackbass
Migration, cod, 491
Milkfish:
  food, 213
  haematology, 125
Mojarra, morphometry, 293
Monosex, production, tilapia, 133
Morone saxatilis, see bass, striped
Morphology, tilapia gynogens, 163
Morphometry, cichlids, 293
Mortality, char, 221
Mystus nemurus, see catfish

Onchorhynchus clarki, see trout, cutthroat
Onchorhynchus kisutch, see salmon, coho
Onchorhynchus mykiss, see trout, rainbow
Oreochromis mossambicus, see tilapia
Oreochromis spilurus, see tilapia
Ostrea chilensis, see oyster
Oxygen:
  production, shrimp ponds, 407
  rohu eggs, 131
  trout, culture, 39
Oyster:
  Chilean
    conditioning, 399
    phenotype analysis, 285
  Pacific, culture, 31

Pantothenic acid, requirement of cichlid fry, 145
Pelagic, fisheries management, 77
Phenotypes, oyster, 285
Photoperiod, salmon first feeding, 435
Pike:
  age determination, 471
  tetracycline marking, 307
Population, sampling, eels, 357
Predation:
  cod behaviour, 317
  dragonfly nymph, 157
  dynamics, striped bass, 195
Production:
  density, oyster, 31
  schedules, tilapia, 187

Rabbitfish, food anf feeding, 375
Rearing:
  barramundi, 443
  conditions, crayfish, 17
  semi-natural, coho salmon, 327
Recapture, trout, 245
Reproduction:
  blackbass, 449
  catfish, 173
  cyprinids, 67
Regression, analysis, rice–fish culture, 1
Rice–fish, culture, 1
Rohu, egg oxygen consumption, 131

Salmo trutta, see trout, brown
Salmon:
  Atlantic, feeding and light, 435
  coho, rearing, 327
  smolt, tracking, 369
Salmonids:
  rearing, 327
  tattooing, 137
Salvelinus alpinus, see char, Arctic
Sampling, eel population, 357
Scales, pike age, 471
Sex, reversal, tilapia, 391
Shrimp, pond, oxygen production, 407
Siganus canaliculatus, see rabbitfish
Size, egg, trout, 269
Spermatozoa, cryopreservation, 25
Stocking, whitefish, 229
Stomach flushing, salmonids, 137
Survey, postal, fisheries management, 479

Tagging, Arctic char, 221
Tattooing, salmonids, 137
Technique:
  estimating eel population, 357
  salmon tracking, estuaries, 369
Temperature, oyster conditioning, 399
Testosterone, methyl, tilapia sex reversal, 391
Tetracycline, marking, pike, 307
Tilapia:
  aquaculture analysis, 1
  gynogens, 163
  monosex production, 133
  predation, 157
  production schedules, 187
  sex reversal, 391
  sperm preservation, 25
Tracking, salmon in estuaries, 369
Triploidy, induction, zebrafish, 299
Trout, brown:
  biology, 95
  feeding, 107, 253
  recapture, 245
  variation, genetic, 47
Trout, cutthroat:
  oxygen, culture, 39
Trout, rainbow:
  egg size, 269
  fecundity, 269
  health, 419
  oxygen, culture, 39

Variation, genetic, trout, 47

Whitefish, stocking, 229

Yield, eels, Polish lake, 347

Zebrafish, triploidy, 299
Zooplankton, dynamics, 195